



**Naval Air Station  
South Weymouth, MA  
Restoration Advisory Board  
Summary of RAB Meeting – September 8, 2005**



**NAS South Weymouth Website:** <http://nas-southweymouth.navy-env.com>

## **1. INTRODUCTIONS/ APPROVAL OF PRIOR MEETING MINUTES**

Ms. Susan Jeghelian, MA Office of Dispute Resolution, and RAB meeting facilitator, opened the meeting at approximately 7:08 PM. She requested that all attendees, including RAB members, regulators, and audience members, introduce themselves. The sign-in sheet for the meeting is provided as Attachment A to this meeting summary. S. Jeghelian asked if everyone had time to read the meeting notes from the prior RAB meeting and asked for comments on them. There were no comments on the August 2005 RAB meeting notes; the notes will stand as issued. In addition, S. Jeghelian encouraged those with ideas for future RAB meeting topics to bring them to the attention of the RAB co-chairs.

S. Jeghelian reviewed the guidelines for the meeting. She reminded the participants when asking questions to wait to speak until they are acknowledged, to state their names and affiliations, and to speak into the microphone when they have questions.

The Agenda for the meeting and the Action Item Tracking List are provided as Attachment B to this meeting summary. S. Jeghelian then noted that in accordance with the agenda, the presentation (Environmental Programs Update) would be followed by the Updates and Action Items portion of the meeting.

## **2. PRESENTATIONS**

S. Jeghelian introduced Mark Leipert, Navy, who was presenting the Environmental Program Updates. The following paragraphs summarize the presentation and include references to selected presentation slides in Attachment C. The complete presentation is available on the NAS South Weymouth web site <http://nas-southweymouth.navy-env.com>.

M. Leipert introduced himself and stated he was going to provide an update on three projects: Jet Fuel Pipeline; Building 81; and Small Landfill.

### Jet Fuel Pipeline

In August, GeoCleanse International again performed an in-situ chemical oxidation treatment on the Jet Fuel Pipeline area as part of the Massachusetts Contingency Plan (MCP) Phase V activities. Slide 2

shows a map of the Jet Fuel Pipeline, indicating the area of concern, the Holding Tank Area. Fenton's reagent has been injected into the vadose zone, e.g., the soil above the groundwater table, and ground water to destroy petroleum hydrocarbons. With petroleum hydrocarbons there is sometimes a smear zone associated with the vadose zone, which is also targeted for clean up. This is the third injection at the site; the previous injections occurred about 2 years ago.

The quantity of reagent injected into Holding Tank Area was 4,338 gallons of 50% hydrogen peroxide and 14,968 gallons of catalyst. GeoCleanse will return on September 12-13<sup>th</sup> to check if the reaction is complete. If it is complete they will then neutralize the reaction. Monitoring will be performed at the site monthly to check if groundwater conditions have stabilized and sampling can occur. Groundwater sampling will occur when the hydrogen peroxide has been neutralized and conditions are stable, which can take up to three months. Quarterly sampling will then begin to confirm the MCP groundwater criteria have been reached. This process is summarized on Slide 3. A Phase V Inspection and Monitoring Status Report will be submitted to MADEP by September 9<sup>th</sup>.

The treatment process is run from a trailer that contains mixing tanks for catalysts, an injection system and a pressure gage monitoring system. Slides 4 and 5 show the monitoring well and injection point locations. Tubing runs from the trailer to the injection points to inject the reagent (Slide 6). The tubing is connected to valves which are used to control the proper mixture of catalysts and hydrogen peroxide.

Geo Cleanse International completed a baseline evaluation for different parameters prior to the start of the injection to determine the initial injection quantities. Fenton's Reagent requires iron sulfate to be used as a catalyst, but since the groundwater formation in this area is very rich in iron, very little additional iron needed to be added. The groundwater flow direction is in an east/southeast direction.

#### Building 81

Field work has resumed at Building 81 and includes the activities summarized in Slide 7. The wells on site have not been used for 2 to 3 years, since the last in-situ chemical injection was completed. The wells were inspected and re-developed to remove any fines, such as silt, from the wells. Building 81 has close to 100 well points that needed to be re-developed (Slide 8). The redevelopment process basically consists of surging the well, and monitoring the parameters, such as water level, pH, temperature, conductivity, and turbidity. A synoptic groundwater level measurement round was completed. Hydraulic conductivity was also measured by slug tests in the overburden and bedrock.

The remaining activity for this phase of work is borehole geophysics, which is scheduled to begin the week of September 19<sup>th</sup>. This will help to determine hydrogeologic characteristics and locations of water bearing fractures. Borehole geophysics methods to be used include fluid temperature, fluid resistivity,

caliper, acoustic televiewer, heat-pulse flow meter. The water generated from the well re-development and other activities is pumped into 55 gallon drums and then transferred to large storage tanks (Slide 9).

#### Small Landfill

The Small Landfill was closed under Superfund as a No Further Action Record of Decision (ROD). The ROD required the Navy to close the landfill under the Massachusetts Solid Waste Regulations. A Corrective Action Alternative Assessment (CAAA) has been completed in accordance with the Massachusetts Solid Waste Regulations and will be submitted to the MADEP this week. A CAAA evaluates the various cleanup alternatives for the site. In order to evaluate the alternatives properly, some pre-CAAA field work needed to be completed. The extent of the landfill needed to be determined, both vertically and horizontally, so extensive test pitting was performed over a several day period, as was sampling for landfill soil gas analysis. A turtle survey was completed prior to brush clearing for the test pitting. One spotted turtle, which had not previously been marked, was found on the west side of the landfill via the meander survey. The CAAA will be available for public review. It will be distributed the repositories, Navy CSO office, as well as the RAB town representatives. Once the CAAA is approved, the next step is the Corrective Action Design. These steps are summarized on Slide 10.

M. Leipert described the various field activities that were completed to support the CAAA. The soil gas survey is conducted with soil gas probes inserted into holes created using a slam bar. The soil gas probe is inserted 3-4 ft into the ground. Volatiles and other gases coming off thru the hole enter the probe and the gases are collected in summa canisters for laboratory analysis.

A question was asked if the summa canister is similar to a draeger tube, where some of the air is drawn through the tube. M. Leipert answered yes. There is a hole in the summa canister and they hook up the hose to it and evacuate several volumes. The soil gas is thus pulled by the vacuum into the summa canister. The canister is then analyzed at the laboratory for different gases.

A total of 25 test pits were dug over a two-day period (Slide 11). Previous investigations had included only two test pits. On the southern edge of the site some plastic bags with yard waste were found. A piece of telephone pole was also found along the side road on the southern edge of the landfill. Test pits dug in the central portion of the landfill were found to be pretty clean. Glass, cable, and wire were found in test pits dug in the northern end of the landfill. The additional test pits were dug to better establish the amount of debris in the area.

A question was asked if any chemical analysis had been performed on the debris found in the pits. M. Leipert answered that there was one area with staining and an odor. Samples were sent to the lab; the

analysis indicated a low level of petroleum hydrocarbons. A bluish crystalline material, resembling sugar, was collected and analyzed. It also had low levels of petroleum hydrocarbons.

J. Cunningham asked about the borehole geophysics that was going to occur at Building 81. M. Leipert answered that equipment, such as calipers and temperature probes, would be put down the borehole to look for existing fractures.

### **3. UPDATES AND ACTION ITEMS**

S. Jeghelian then asked each of the Leads to provide updates to the list of eight Update Items.

1. Administrative Actions - D. Barney stated that there was nothing new to report.
2. MADEP Update - D. Chaffin stated that MADEP was waiting to receive the Small Landfill CAAA report. There will be a presentation on the Small Landfill at the next RAB meeting. The MADEP also gave approval to the Navy of the removal action at the Fire Fighting Training Area (FFTA) (see IR Update below).
3. Coast Guard Buoy Facility Update – There was no report.
4. IR Program Sites Update:
  - Fire Fighting Training Area - D. Barney stated that a Release Abatement Measurement (RAM) Plan had been submitted and was approved, so that additional samples could be collected in the test pits. The next step is to submit a Notice of Intent to the Rockland Conservation Commission. The Notice of Intent is currently being reviewed internally and is anticipated to be submitted by next Friday. This will allow the issue to be placed on the Conservation Commission schedule for discussion of the project. An order of conditions will be issued by the Rockland Conservation Commission and then work can move forward as outlined in RAM plan and consistent with the order of conditions.

Tile Leach Field - D. Barney stated a No Further Action Proposed Plan is being finalized. A public hearing is anticipated in the November time frame.

Sewage Treatment Plant - D. Barney stated that additional characterization work underneath the canopy and follow up groundwater samples will be collected as soon as a plan of action has been worked out and a Work Plan has been submitted to the agencies for review and discussion.

Rubble Disposal Area - D. Barney stated a scope of work had been submitted to the contractor to complete the hot spot removal action, complete the landfill cover, and restore wetlands in the area. The contractor is also being asked to correct the deficiencies in the existing vegetation coverage. The turtle bridges will also be made contiguous across the rip rap along the lower wetland boundary. The work is anticipated to be done in the October/ November time frame.

West Gate Landfill - D. Barney stated the Navy will resubmit a draft final proposed plan to the agencies tomorrow to restart the process. There will be an opportunity for a public hearing/comment period at a later date. The plan is for in-place management, basically a soil cap with institutional controls and long term monitoring.

Building 81 – D. Barney referred to M. Leipert's presentation and noted the Work Plan is being finalized.

Building 82 - D. Barney stated the Work Plan is being finalized.

Solvent Release Area - D. Barney stated the draft Work Plan was submitted at the end of August.

A. Malewicz asked for confirmation that the vegetation would be reseeded at the RDA in the October/November time frame. D. Barney answered yes. She then asked if there was a contingency if the vegetation does not hold, considering the vegetation was reseeded at the same time last year. D. Barney answered that the contract will be written in a performance based manner, so a general standard will have to be met. Therefore if the seed does not take, the contractor will have to return to fix the work. A. Malewicz asked if hay would be used again to hold the top of the cap/seeds in place. D. Barney said he was not sure of the specifics. He stated that the contract would be performance based so there would be a level of coverage that would need to be reached, rather than a one-time seeding event. A. Malewicz stated she was concerned with sedimentation and erosion and asked if that would be considered part of the standard. D. Barney stated that the contractor will have to provide details to meet the goals of the performance standard. He will provide more up to date information at the next RAB meeting.

A. Malewicz asked if the proposed cap for the West Gate Landfill (WGL) was a presumptive remedy. Is there enough data to specify what the cap should be? D. Barney answered that the presumption is that the cap will be a PCB-type cover. The WGL draft final proposed plan will be submitted to the regulators on September 9, 2005, with comments and considerations due in 30 days.

B. Olson stated that as far as EPA is concerned, the WGL issues are still in play. He noted that there appears to have been some discussion over the costs of the property and the EDC, and WGL may be part of that negotiation. Therefore, the EPA may not be able to comment in 30 days without knowing what is going to happen with the property. He suggested allowing time for the discussions on reuse and the EDC to take place first and then EPA would be in a better position to decide if the proposed plan is appropriate. EPA recently received a letter from SSTTDC indicating that they want to perform pump tests which may have some significance regarding the appropriateness of the cap. He noted that there are a number of issues that still need to be addressed.

B. Olson stated that for normal municipal landfills the presumptive remedy for EPA is a cap, since it is usually less safe to try to move the material to different location only to cap it there. When EPA looks at a military-type landfill, they try to determine if it is similar to a municipal type landfill or if there are any special military wastes in it. He stated that from what EPA has been seen so far there does not appear to be any special military wastes at WGL. EPA feels that WGL appears to contain municipal wastes which fit into the category of capping as a presumptive remedy. He commented that discussions between Lennar/SSTTDC and the Navy on the EDC, early transfer, and potential privatization, which had been on the table before, although they may not be now, need to occur before EPA can make a decision.

5. MCP Release Areas Update - M. Leipert stated that the only update was the Jet Fuel Pipeline, which had already been given.
6. EBS Review Item Areas/Various Removal Action Update - M. Leipert stated that regulators have concurred that removal actions on AOC 3, 13, 15, and 100 are now complete. The next step is a proposed plan that will be out for a 30-day public comment period on October 24, 2005 and a public hearing will be held for those sites, as well as Tile Leach Field, on November 10, 2005. The PCB-contaminated soil removal activities will continue at AOC 8 in about two weeks.
7. FOST/FOSL/CDR Update - D. Barney stated that there were no updates.
8. SSTTDC Update - Steve Ivas stated there were three things to report. First, he noted that Bob Lundquist had to be thanked; he stepped down last night (September 7) after almost 7 years as the Weymouth representative to the Board of Directors. The mayor has not yet named his replacement. Second, the CAC is meeting tonight and is working through the first issues on the notice of project change (per MEPA regulations). The given use for the site has been changed and the notice of project change is the first step in the MEPA process. The next step will be a

rescoping and public hearing. The MEPA process will take about one year. Third, an unescorted access policy/request form for access to SSTTDC property had been printed and was brought to the meeting (copies were left on the table at the back of the room). The forms are available at the Tri-Town office during regular business hours. These forms provide unescorted access to Tri-Town owned property. The policy includes a map which differentiates sites that are accessible to the public and those that are owned by the Navy.

There is no Navy policy regarding unescorted access. Questions were raised about how this policy will work with the Navy property and restricted areas. There could be an issue with the public accessing Navy property. P. Harting-Barrat stated that she thought it should be clear when people signed these policies that there are restricted areas which are not open to the public.

#### Possible Topics for future RAB Meetings

S. Jeghelian asked if there were any suggestions for topics to discuss for the next RAB meeting. D. Barney reviewed the dates for the RAB meetings until the end of the year. A request was made that S. Ivas tell SSTTDC about the conflict in meeting dates. The following topics were suggested: Small Landfill – CAAA; West Gate Landfill update; update on basewide assessment; and need more information on the SSTTDC unescorted access policy.

The following meeting topics were set:

- October 13 - Small Landfill Presentation
- November 10 - Public information session/presentation/hearing: Proposed Plans for AOCs 3, 13, 15, 100, and the Tile Leach Field (in place of regularly scheduled RAB meeting). D. Barney will prepare an informal update for November.
- December 8 – TBD; FFTA/WGL/ RDA update for cap fix activities

#### Conclusion/Next Meeting

The meeting was concluded at approximately 8:10 pm. The next monthly RAB meeting was set for Thursday, October 13, 2005.

**ATTACHMENT A**

**SIGN-IN SHEET**

SIGN IN SHEET  
RESTORATION ADVISORY BOARD  
PUBLIC MEETING

9/08/2005

NAME	ADDRESS	TELEPHONE
DAVE BARNES	US NAVY	617 753 4656
Phoebe Call	TFNUS	978-658-7899
Bryan Olson	US EPA	617-918-1365
Lucan Joghelian	MODR	617-287-4047
Mark Lepert	Navy	610-595-0567 Ext 146
Jennifer Lambert	TFNUS	978-658-7899
Steve White	RAB	781-331-5323
Dave Chaffin	DEP	617 348-4005
Pam Harting-Berlet	US EPA	617 918 1318
Steve Ivas	IE/SSTDC	781.659.1690
David Urdann	CH2M Hill	617 515 3804
Paul F. Anderson	US Navy	617 753 4658
Leslie G. Ash	Acting Head Environment	781.648.9288
Patty M. Wulkenre	EPA	617/918-1382
Jan McCormack	Way RAB	781-340-5000

SIGN IN SHEET  
RESTORATION ADVISORY BOARD  
PUBLIC MEETING

9/08/2005

NAME	ADDRESS	TELEPHONE
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Peter Scannell	79 FROST ST	781 340 7446
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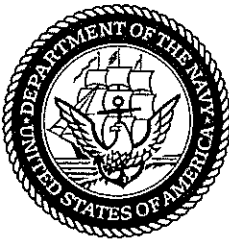
<del>John Jacob Coetsee</del>	<del>953 Commercial</del> <sup>E. Weymouth</sup>	<del>781-335-1306</del>
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<del>Marie Jaynes</del>	<del>23 Filmore St</del>	<del>781-335-6400</del>
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JAMES CUNNINGHAM	WEY/RAB	781-331-0545
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## **ATTACHMENT B**

### **AGENDA & ACTION ITEM TRACKING LIST**



**Naval Air Station  
South Weymouth  
Restoration Advisory Board  
RAB Meeting Agenda  
South Weymouth, MA**



8 September 2005

Conference Center on Shea Memorial Drive

7:00 PM

<i>Agenda Items</i>	<i>Item Lead</i>	<i>Projected Time</i>
<b>1. Introduction, Review of Meeting Notes</b>	<b>Facilitator</b>	7:00 - 7:15
<b>2. Environmental Program Updates</b>	<b>Navy</b>	7:15 - 7:45
<b>3. Updates and Action Items</b>	<b>Facilitator</b>	7:45 - 8:15
<b>4. Questions, Agenda Items, Next Meeting</b>	<b>Facilitator</b>	8:15 - 8:30

**Facilitator:** Massachusetts Office of Dispute Resolution: Susan Jeghelian

**Restoration Advisory Board (RAB) Members:**

**Abington:** James Lavin, (Alternate: Steve Ivas); Phil Sortin (Alternate: Beth Sortin)

**Hingham:** no current representation

**Rockland:** no current representation

**Weymouth:** James Cunningham (Community Co-Chair); Ken Hayes; Verna Hayes  
Dan McCormack; Steve White

**Navy:** Dave Barney (Navy Co-Chair); (Alternate: Mark Leipert)

**EPA:** Patty Marajh-Whittemore (Alternate: Pamela Harting-Barrat)

**MA DEP:** David Chaffin (Alternate: Ann Malewicz)

**BRAC Cleanup Team (BCT) Points of Contact:**

**Navy:** Dave Barney, BRAC Environmental Coordinator (BEC)/EFA Northeast Remedial Project Manager (617) 753-4656  
Email: barneyda@efane.navfac.navy.mil

Mark Leipert, EFA Northeast EBS Project Manager (610) 595-0557, ext. 146  
Email: mark.leipert@navy.mil

**MA DEP:** David Chaffin, Environmental Engineer, Federal Facilities (617) 348-4005  
Email: david.chaffin@state.ma.us

**EPA:** Patty Marajh-Whittemore, Remedial Project Manager, Federal Facilities Section (617) 918-1382 Email: whittemore.patty@epamail.epa.gov

**NAS South Weymouth Website:** <http://nas-southweymouth.navy-env.com>



**Naval Air Station  
South Weymouth  
Restoration Advisory Board  
Action Item Tracking List**



**8 September 2005 – Next RAB Meeting**

<i>Action Item</i>	<i>Item Lead</i>	<i>Deadline</i>
<b>ACTION ITEMS</b>		
None		
<b>UPDATES</b>		
RAB Administrative Actions	D. Barney	Each RAB
MA DEP Update	D. Chaffin	Each RAB
Coast Guard Buoy Facility Update	R. Marino/J. Connet	Each RAB
IR Program Sites Update	D. Barney	Each RAB
MCP Release Areas Update	M. Leipert	Each RAB
EBS Review Item Areas/ Various Removal Action Update	M. Leipert	Each RAB
FOST/FOSL/CDR Update	D. Barney	Each RAB
SSTTDC Update	J. Lavin/ S. Ivas	Each RAB
<b>COMPLETED ITEMS</b>		
Provide turtle activity update (8/05)		
Check where upcoming RAB meeting times are posted (8/05)		
Distribute monthly Navy program status/administrative items update (8/05)		
Provide RDA construction cost, cap design life, address safety issues (6/05)		
Provide copies of DoD directive regarding environmental issues (6/05)		
Provide DEP Small Landfill letter to M. Parsons and S. Ivas (6/05)		
Distribute monthly Navy program status/administrative items update (5/05)		
Provide Vortech system O&M handout to Navy (3/05)		
Provide a paper copy of SMP schedule to J. Cunningham (3/05)		
Provide completion date of draft base-wide assessment report (3/05)		
Post summarized version of DDA on SSTTDC Website (12/04)		
Check on seating capacity for Conference Center (12/04)		
Update RAB on BRAC conference (12/04)		
Check on analytical data from RIA 112 storm drain maintenance actions (12/04)		
Provide list of sites for L. Larrabee (12/04)		
Navy and consultant evaluate alternatives for reporting data on several metals for D. Wilmot (12/04)		
Provide sample ESCA from another Navy site to Mary Parsons/B. Sortin (12/04)		
Provide copy of EPA's June 14 Letter to Navy to M. Parsons		
Provide copy of Navy's June 24 Letter to SSTTDC to M. Parsons		
Provide data on RIA 4B surface water and sediment		
Provide analytical results for several metals to Dave Wilmot		
Check on whether any more barrels have been found at RDA		
Check on preliminary data from the Jet Fuel Pipeline Site		
Provide USGS with leads on sources of data for the Old Swamp River Study		
Compile and review available French Stream data – to be done as part of Basewide watershed study		

## **ATTACHMENT C**

### **SLIDES FROM ENVIRONMENTAL PROGRAM UPDATES PRESENTATION**



NAVFAC  
Naval Facilities Engineering Command



Map showing the location of the Jet Fuel Pipeline and the Holding Tank Area. The map includes labels for the Jet Fuel Pipeline Location and the Holding Tank Area. Other visible labels include Norfolk Naval Air Station, Norfolk Naval Shipyard, and Norfolk Naval Air Station.

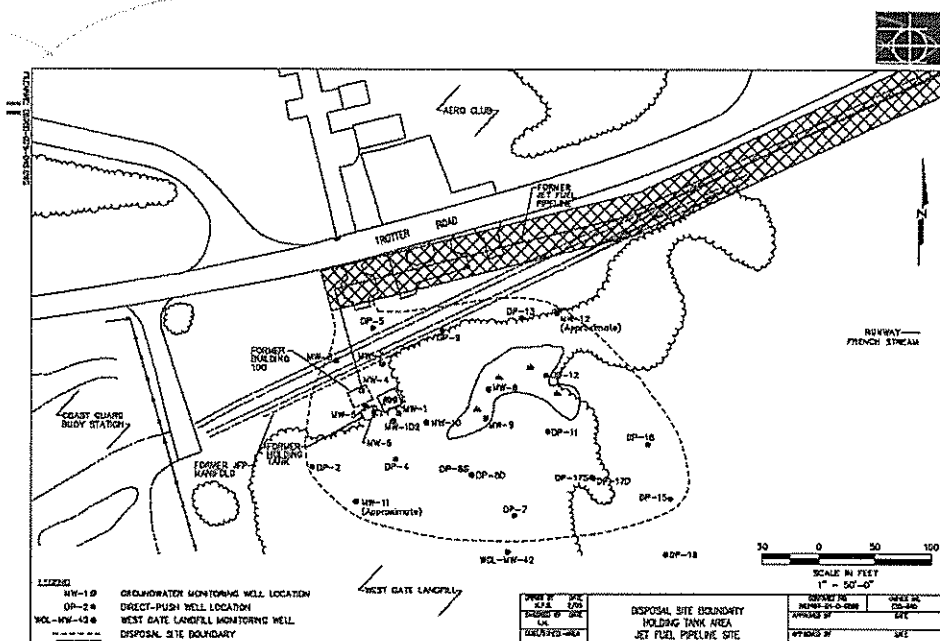
## Jet Fuel Pipeline Activities



- Navy performing an in-situ chemical oxidation treatment as part of the Massachusetts Contingency Plan (MCP) Phase V activities.
- This is the third round of treatment at the site.
- GeoCleanse International injected Fenton's Reagent into the vadose zone and ground water.
  - Injected 4, 338 gallons of 50% hydrogen peroxide
  - Injected 14,968 gallons of catalyst
- GeoCleanse will be back on Sept. 12-13th to neutralize the reaction.
- The Navy's contractor will monitor conditions at the site to allow us to know when the time is right to begin sampling.
- Will submit Phase V Inspection and Monitoring Status Report by September 9th.
- Quarterly Sampling to verify we met our cleanup objectives.

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Title/Group/Section, etc.



10

Title/Group/Section, etc.



## Building 81 - Planned Field Activities

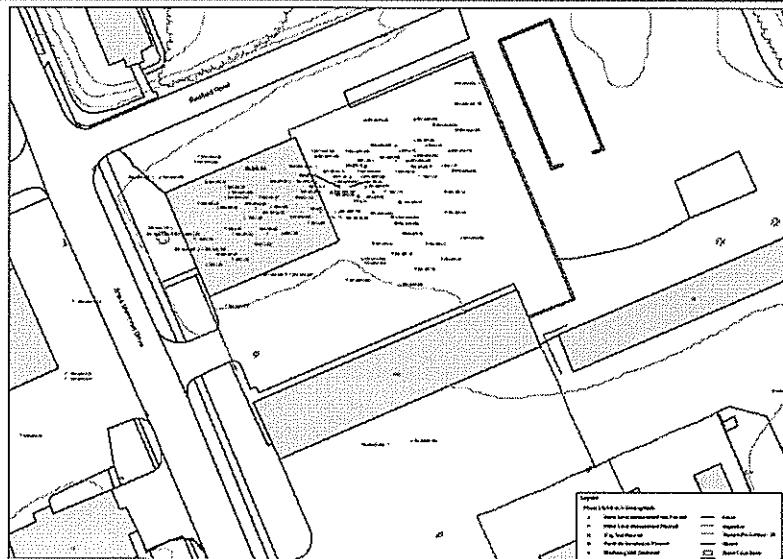


- Well Inspections
- Well Development
  - Surge wells/injectors - pumping or bailing
  - Measure pH, Conductivity, temperature, turbidity
- Synoptic Ground Water level measurements
- Borehole Geophysics - begin week of September 19th.
  - determine hydrogeologic characteristics and locations of water-bearing fractures.
  - Methods include: fluid temperature, fluid resistivity, caliper, acoustic televiewer, heat-pulse flow meter.
- Hydraulic Conductivity Test
  - Slug tests conducted to better characterize the hydraulic conductivity in the overburden and bedrock.

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Title/Group/Section, etc.

## Plan View of the Monitoring Network for Building 81

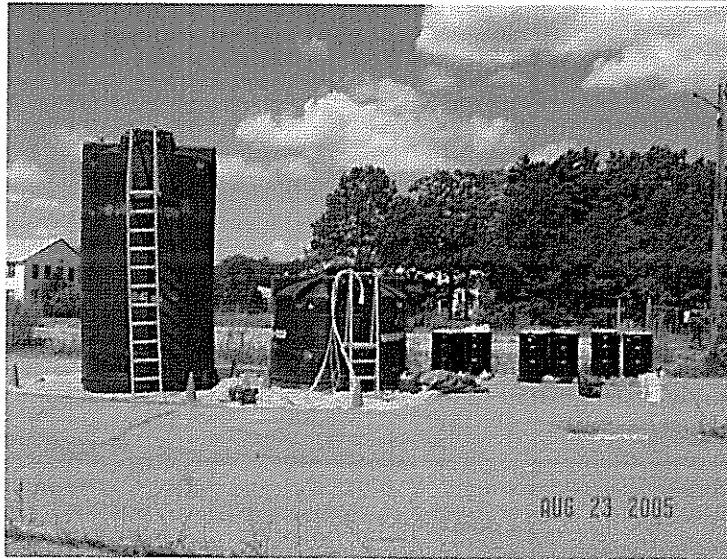


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14

Title/Group/Section, etc.

**Collection Tanks Used to Collect Waste Water from the Development of the Monitoring Wells. Investigative Derived Waste (IDW)**



28

*Title/Group/Section, etc.*

**Small Landfill Closure**



- **Small Landfill was No Further Action under Superfund (CERCLA).**
- **Required to close out the landfill under the Massachusetts Solid Waste Regulations.**
- **Corrective Action Alternative Assessment (CAAA) is being submitted to the state this week. Similar to a feasibility study where it evaluates various cleanup alternatives.**
- **Needed to do some pre-CAAA field work in order to evaluate the alternatives properly.**
- **Conducted several days of test pitting and landfill soil gas analysis.**
- **The CAAA will be available for the Public to review.**
- **Once the CAAA is approved, the next step would be the Corrective Action Design (CAD) - Dec. 2005**

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*Title/Group/Section, etc.*

